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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,634	10/29/2003	Meikei leong	YOR920030394US1 (16963)	5489	
75	90 10/12/2004		EXAM	INER	
Steven Fischman			ERDEM,	ERDEM, FAZLI	
Scully, Scott, M	Iurphy & Presser				
400 Garden City Plaza			ART UNIT	PAPER NUMBER	
Garden City, N			2826		
			DATE MAIL ED: 10/12/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>,                                     </u>							
, 1		Application No.	Applicant(s)				
		10/696,634	IEONG ET AL.				
·	Office Action Summary	Examiner	Art Unit				
		Fazli Erdem	2826				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with th	ocrrespondence address				
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be oly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-35</u> is/are pending in the application 4a) Of the above claim(s) <u>10-23</u> is/are withdray Claim(s) <u>24-35</u> is/are allowed. Claim(s) <u>1 and 4-7</u> is/are rejected. Claim(s) <u>2,3,8 and 9</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.					
Applicati	ion Papers						
10)	The specification is objected to by the Examina The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examina to the specific property of the specific property.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
12) a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece nu (PCT Rule 17.2(a)).	ation No ived in this National Stage				
2) 🔲 Notic 3) 🔲 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)						
1)  Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				

## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 24-35 allowed.
- 2. Claims 2, 3, 8 and 9objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Isomura (JP 2001068708) in view of Hayafuji et al. (5,677,922)

Regarding Claims 1 and 4-7. Isomura discloses a semiconductor element, solar battery element and manufacture of the semiconductor element where in Fig. 4 a polysilicon layer 4 is formed having a different crystal orientation than layer 5 which is directly on top of it. Isomura fails to disclose a conductive layer between the two layers having two different crystal orientations. However, Hayafuji et al. disclose a semiconductor laser with crystalline window layer where in Fig. 1(a), layers 26 and 8 have different crystal orientations and there are conducting layers between them.

It would have been obvious to one of having ordinary skill in the art the time the invention was made to include the required conductive layer between the first and the second

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layers having different crystal orientations, in order to have a semiconductor device with more

functionality.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FF

September 17, 2004

NATHAN J. FLYNN
THEREWISORY PATENT EXAMINER
WALLEN CENTER 2800

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